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UNITED STATES DEPARTMENT OF AGRICULTURE,
FOREST SERVICE.

HENRY S. GRAVES, Forester.

October Field Program, 1912.

This program of field work and assignments in the Forest Service is issued quarterly on the 15th day of July, October, January, and April, and is for the exclusive use of members of the Service and cooperating bureaus. The names of members whose assignments are not yet fixed are necessarily omitted. All orders and other instructions printed in the Field Program will apply to all districts.

It is requested that the members of the Forest Service cooperate in making this program complete and accurate.

Unless the address of a member is given in this program or is definitely known, he should be addressed in care of the Forest Service, Washington, D. C.

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Forage investigations.—Arthur T. Sampson, Ephraim, Utah, and William A. Dayton, Sisson, Cal., plant ecologists.

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Josef Brunner, field agent, Bureau of Entomology, Missoula, Mont.

James R. Weir, consulting pathologist, Missoula, Mont.

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- Sioux.**—See South Dakota.

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PLANTING.—SEWARD D. SMITH.

SILVICS.—C. G. BATES.

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J. H. Potts and I. T. Starbuck, Denver, Colo.

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- Holy Cross.**—HARRY H. FRENCII, forest supervisor, Glenwood Springs (WU-WF, G) ; George R. Morrison, forest assistant.
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LANDS.—FRANK C. W. POOLER, assistant district forester; J. H. ALLISON, forest examiner, in charge of land classification.

EXPERIMENT STATION.

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NATIONAL FORESTS.

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ARKANSAS.

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Carson.—ALDO LEOPOLD, forest supervisor, Tres Piedras (WU-G); Ira T. Yarnall, Raymond E. Marsh, forest assistants.

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SILVICS.—E. R. HODSON.

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SUPPLY DEPOT.—A. M. SMITH, property clerk.

PROPERTY AUDIT.—J. G. FALCK, property auditor.

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NATIONAL FORESTS.

ARIZONA.

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IDAHO.

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Salmon.—ROYAL F. MATHIAS, forest supervisor, Salmon (WU-Am); John A. Pearson, deputy forest supervisor; Herman Work, forest assistant.

Sawtooth.—C. N. WOODS, forest supervisor, Hailey (WU-Am); Herbert G. McPheters, deputy forest supervisor; Samuel B. Locke, deputy forest supervisor.

Targhee.—CHESTER B. MORSE, forest supervisor, St. Anthony (WU-Am); Charles A. Beam, deputy forest supervisor.

Weiser.—J. B. LAFFERTY, forest supervisor, Weiser (WU-Am); W. M. Campbell, deputy forest supervisor; A. E. Oman, forest assistant.

NEVADA.

Humboldt.—C. SYDNEY TREMEWAN, forest supervisor, Elko (WU-WF).

Moapa.—THOMAS J. COLLINS, forest supervisor, Austin (WU-Am).

Nevada.—GEO. C. THOMPSON, forest supervisor, Ely (WU-WF).

Ruby.—JAMES M. RYAN, forest supervisor, Lamoille (WU-WF).

Santa Rosa.—W. W. BLAKESLEE, forest supervisor, Paradise.

Toiyabe.—THOMAS J. COLLINS, forest supervisor, Austin (WU, P-WF).

UTAH.

Ashley.—W. M. ANDERSON, forest supervisor, Vernal (WU-WF); Lester E. Hitchcock, forest assistant.

Cache.—CLINTON G. SMITH, forest supervisor, Logan (WU-Am); J. W. Humphrey, deputy forest supervisor.

Dixie.—JOHN RAPHAEL, forest supervisor, St. George (WU-WF).

Fillmore.—WM. HURST, forest supervisor, Beaver (WU-WF).

Fishlake.—CARL B. ARENTSON, forest supervisor, Salina (WU-WF).

La Sal.—HENRY A. BERGH, forest supervisor, Moab (WU-WF).

Manti.—A. W. JENSEN, forest supervisor, Ephraim (WU-WF); Ernest Winkler, deputy forest supervisor.

Minidoka.—See Idaho.

Nebo.—DAN S. PACK, forest supervisor, Nephi (WU-WF).

Pocatello.—See Idaho.

Powell.—GEO. H. BARNEY, forest supervisor, Escalante (WU-WF).

Sevier.—O. C. SNOW, forest supervisor, Panguitch (WU-WF).

Uinta.—W. I. PACK, forest supervisor, Provo (WU-WF); J. Carl Allred, deputy forest supervisor; Nils B. Eckbo, forest examiner; Uinta Nursery, Asa L. Brower, forest assistant.

Wasatch.—E. H. CLARKE, forest supervisor, Salt Lake City (WU, P-Am, WF); Wasatch Nursery, N. J. Fetherolf, forest planting assistant.

WYOMING.

Ashley.—See Utah.

Caribou.—See Idaho.

Palisade.—See Idaho.

Targhee.—See Idaho.

Teton.—R. E. MILLER, forest supervisor, Jackson (WU-Am); H. B. Maris, forest assistant.

Wyoming.—JAMES E. JEWELL, forest supervisor, Afton (WU-Am); John E. Ingram, forest assistant.

DISTRICT 5.

California and Southwestern Nevada. Office, First National Bank Building, San Francisco, Cal.

COERT DUBOIS, district forester; WALTER L. HUBER, district engineer; J. LEROY MATHIAS, assistant to district engineer; CLARENCE WILEY, inspector of records.

LAW.—Office of the Solicitor (Forest Service branch). H. P. DECHANT, assistant to the solicitor, in charge; MAURY CURTIS, assistant to the solicitor.

ACCOUNTS.—F. C. THOMPSON, district fiscal agent.

OPERATION.—ROY HEADLEY, assistant district forester; Wm. C. Hodge, jr., inspector of fire-protection plans.

MAINTENANCE.—F. H. SMITH.

SILVICULTURE.—T. D. WOODBURY, assistant district forester; SWIFT BERRY, forest examiner.

SILVICS.—J. A. MITCHELL, forest assistant.

E. P. Meinecke, consulting pathologist, San Francisco, Cal.

GRAZING.—JOHN H. HATTON, assistant district forester.

LANDS.—L. A. BARRETT, assistant district forester; Chas. S. Brothers, assistant.

PRODUCTS.—C. STOWELL SMITH, assistant district forester, in charge; C. A. Kupfer, forest assistant; Percy R. Hicks, engineer in wood preservation; Geo. M. Hunt, assistant chemist in forest products, San Francisco, Cal.

EXPERIMENT STATION.

Feather River, Plumas National Forest.—HAROLD H. GREENAMYRE, forest assistant, in charge, Quincy, Cal.; Louis T. Larsen, Clifford M. Cole, and Clarence E. Taylor, forest assistants.

NATIONAL FORESTS.

CALIFORNIA.

Angeles.—R. H. CHARLTON, forest supervisor, Los Angeles (WU, P-WF); Edward N. Munns, forest assistant, San Bernardino; Serope Y. Parney, forest planting assistant, Redlands.

California.—D. P. GODWIN, forest supervisor, Willows (P-WF); A. W. Bartlett, deputy forest supervisor; S. W. Strothman, forest assistant; J. C. Elliott, lumberman, reconnaissance.

Cleveland.—H. N. WHEELER, forest supervisor, San Diego (WU, P-WF).

Eldorado.—EVAN W. KELLEY, forest supervisor, Placerville (WU-WF); George W. Lyons, forest assistant.

Inyo.—A. H. HOGUE, forest supervisor, Bishop (WU-WF); Chas. H. Edwards, forest assistant.

- Kern.**—W. J. RUSHING, forest supervisor, Bakersfield (WU-WF); Jas. O. Morrow, deputy forest supervisor; Neal T. Childs, forest assistant.
- Klamath.**—W. B. RIDER, forest supervisor, Yreka (WU-WF); J. R. Hall, deputy forest supervisor; Douglas K. Noyes, forest assistant; Ralph Hopping, forest examiner.
- Lassen.**—L. A. H. KLING, forest supervisor, Red Bluff (P-WF); Shirley W. Allen, forest examiner; R. H. Boerker, forest assistant.
- Modoc.**—C. E. RACHFORD, forest supervisor, Alturas (P-WF); Vernon L. Bonner, deputy forest supervisor; Belknap C. Goldsmith, forest assistant.
- Mono.**—See Nevada.
- Monterey.**—N. H. SLOANE, acting forest supervisor, Arbolado (WU, Monterey-WF, Monterey).
- Plumas.**—D. N. ROGERS, forest supervisor, Quincy (WU, Keddie, Cal.-G); W. G. Durbin, deputy forest supervisor; R. S. Maddox, George R. Orr, Frank A. Wegner, forest assistants; Patrick Kennedy, lumberman, reconnaissance.
- Santa Barbara.**—W. M. SLOSSON, forest supervisor, Santa Barbara (P-WF); H. G. Merrill, deputy forest supervisor; W. M. Moore, forest assistant.
- Sequoia.**—ALLAN B. PATTERSON, forest supervisor, Hot Springs, Tulare County (WU via Ducor-WF); S. W. Wynne, deputy forest supervisor.
- Shasta.**—R. F. HAMMATT, forest supervisor, Sisson (P-WF); M. R. Tillotson, deputy forest supervisor; Stewart B. Show and Edward I. Kotok, forest assistants; Pilgrim Creek Nursery, Fred W. Graham, assistant forest ranger, in charge, McCloud.
- Sierra.**—P. G. REDINGTON, forest supervisor, Northfork (WU via Friant-WF, Friant); M. A. Benedict, deputy forest supervisor; Ernest G. Dudley and Cary Hill, forest assistants; C. H. Ensign, lumberman, reconnaissance.
- Stanislaus.**—R. W. AYRES, forest supervisor, Sonora (WU-WF); T. C. West, deputy forest supervisor; J. V. Wulff, forest assistant.
- Tahoe.**—R. L. P. BIGELOW, forest supervisor, Nevada City (WU-WF); M. B. Pratt, deputy forest supervisor; K. Mills, Reese W. Taylor, and Edward H. Coulson, forest assistants.
- Trinity.**—W. A. HUESTIS, forest supervisor, Weaverville (WU-WF); J. D. Coffman, deputy forest supervisor; Ernst V. Jotter, forest assistant.

NEVADA.

- Eldorado.**—See California.
- Inyo.**—See California.
- Mono.**—WM. M. MAULE, forest supervisor, Gardnerville (WU-WF); Edward J. Yeomans, forest assistant.
- Tahoe.**—See California.

DISTRICT 6.

Washington, Oregon, and Alaska. Office, Beck Building, Portland, Oreg.

GEO. H. CECIL, district forester; W. E. HERRING, district engineer.

LAW.—Office of the Solicitor (Forest Service branch). W. F. STALEY, assistant to the solicitor, in charge; EARL C. ARNOLD, assistant to the solicitor.

ACCOUNTS.—A. H. COUSINS, district fiscal agent.

OPERATION.—C. H. FLORY, assistant district forester.

MAINTENANCE.—SHIRLEY BUCK.

SILVICULTURE.—F. E. AMES, assistant district forester; C. S. JUDD, assistant district forester; W. H. GIBBONS, investigation of logging costs; W. T. ANDREWS, H. P. HENRY, lumbermen; EDWIN C. ERICKSON, scaler.

PLANTING.—J. F. KÜMMEL.

SILVICS.—T. T. MUNGER.

Studies, E. J. Hanzlik, Max Rothkugel, Portland.

GRAZING.—T. P. MACKENZIE, assistant district forester.

LANDS.—C. J. BUCK, assistant district forester; land classification, J. Roy Harvey, in charge; A. J. Strahorn, soil expert. Mount Hebo project, Ernest Jameson, in charge; C. K. Hubbard, G. T. McCaskey, J. D. Merrill.

PRODUCTS.—J. B. KNAPP, assistant district forester, in charge; H. B. Oakleaf, Portland; O. P. M. Goss, C. W. Zimmerman, H. P. Wyckoff, Cornelius Barry, Seattle, Wash.

NATIONAL FORESTS.

ALASKA.

Chugach.—W. G. WEIGLE, forest supervisor, Ketchikan (SC, U. S. A., WU-AP, Am); Thos. M. Hunt, deputy forest supervisor; Bruce Hoffman, forest assistant.

Tongass.—W. G. WEIGLE, forest supervisor, Ketchikan (SC, U. S. A., WU-AP, Am).

CALIFORNIA.

Crater.—See Oregon.

Siskiyou.—See Oregon.

OREGON.

Cascade.—C. R. SEITZ, forest supervisor, Eugene (WU, P-WF).

Crater.—M. L. ERICKSON, forest supervisor, Medford (WU, P-WF); S. S. Swenning, deputy forest supervisor; H. D. Foster, William E. White, and O. W. Hodgman, forest assistants.

- Deschutes.**—MELVIN L. MERRITT, forest supervisor, Bend (WU, PT & T-Ad via Opal City, GN via Opal City).
- Fremont.**—GILBERT D. BROWN, forest supervisor, Lakeview (WU via Reno, Nev.—P, WF); Nelson J. Billings, deputy forest supervisor; Norman G. Jacobson, forest assistant.
- Klamath.**—See California.
- Malheur.**—CY. J. BINGHAM, forest supervisor, John Day (WU via Baker City-Am, WF via Baker City); D. B. Reynolds, deputy forest supervisor; Robie M. Evans, forest assistant.
- Minam.**—H. W. HARRIS, forest supervisor, Wallowa (WU-Am); Ephraim Barnes, deputy forest supervisor.
- Ochoco.**—HOMER ROSS, forest supervisor, Prineville (WU, PT & T-Am); Allen Hodgson, deputy forest supervisor.
- Oregon.**—T. H. SHERRARD, forest supervisor, Portland (WU, P-Am, WF, N); Ralph S. Shelley, deputy forest supervisor; W. B. Osborne and Max Rothkugel, forest assistants.
- Paulina.**—W. W. CRYDER, forest supervisor, Crescent (WU, PT & T-Ad, GN via Opal City).
- Santiam.**—F. H. BRUNDAGE, forest supervisor, Albany (WU, P-WF); E. B. Starr, forest assistant.
- Siskiyou.**—N. F. MACDUFF, forest supervisor, Grants Pass (WU, P-WF); H. Haefner, forest assistant.
- Siuslaw.**—A. E. COHOON, forest supervisor, Eugene (WU, P-WF); David E. Fitton, deputy forest supervisor; H. M. Johnson, forest assistant.
- Umatilla.**—HUGH B. RANKIN, forest supervisor, Heppner (WU, P-AM); G. A. Bright, forest assistant.
- Umpqua.**—S. C. BARTRUM, forest supervisor, Roseburg (WU, P-WF); Arthur Kerr, forest assistant.
- Wallowa.**—H. W. HARRIS, forest supervisor, Wallowa (WU-Am).
- Wenaha.**—See Washington.
- Whitman.**—HENRY IRELAND, forest supervisor, Sumpter (WU via Baker City-Am, WF via Baker City); E. H. McDaniels, deputy forest supervisor; Harold P. Gilkey, B. Frank Heintzleman, Samuel E. Robison, Thurman J. Starker, Lawrence Pagter, and Hamilton M. Coan, forest assistants.

WASHINGTON.

- Chelan.**—G. W. MILHAM, forest supervisor, Chelan (PT & T-Am, GN via Wenatchee).
- Columbia.**—H. O. STABLER, forest supervisor, Portland, Oreg. (WU, P-Am, WF, N); W. W. G. Hastings, deputy forest supervisor; A. R. Wilcox, Lage Wernstedt, and C. P. Willis, forest assistants.
- Colville.**—C. C. REID, forest supervisor, Republic (WU, P-Am, GN); F. W. Cleator, deputy forest supervisor; Edward W. Headsten, forest assistant.

- Okanogan.**—H. M. HALE, forest supervisor, Okanogan (PT & T-Am, GN via Wenatchee); V. V. Herpham, deputy forest supervisor.
- Olympic.**—R. L. FROMME, forest supervisor, Olympia (WU, P-Am, GN, N); A. A. Parker, deputy forest supervisor.
- Rainier.**—G. F. ALLEN, forest supervisor, Tacoma (WU, P-Am, N); P. T. Harris, deputy forest supervisor.
- Snoqualmie.**———, forest supervisor, Seattle (WU, P-N, GN, WF); Lewis A. Treen, jr., deputy forest supervisor; Walter H. Leve and Alexander G. Jackson, forest assistants.
- Washington.**—C. H. PARK, forest supervisor, Bellingham (WU, P-Am, GN, N).
- Wenaha.**—J. M. SCHMITZ, forest supervisor, Walla Walla (WU-Am, N).
- Wenatchee.**—A. H. SYLVESTER, forest supervisor, Leavenworth (WU-Am, GN); E. J. Fenby, forest assistant.

SERVICE CHANGES.

APPOINTED.

PRODUCTS.—Laboratory: Lorrain J. Markwardt, assistant engineer in forest products; Joseph P. Mehlig, assistant chemist in forest products; Clark W. Gould, statistician in forest products; Alfred W. Dohr, laboratory aid and engineer; Oscar W. Torgeson, laboratory aid and engineer. Wood Utilization: Collaborators—W. G. Gardner Conklin, R. Lynn Emerick, Walter D. Ludwig, Edward F. McCarthy, and James E. McNeal.

ACQUISITION.—Examiners of surveys: Thomas A. Cox, jr., Alfred P. Hamilton, Arthur E. Hoxie, Samuel D. Sarason, William N. Sloan, David H. S. Tappan, Robert E. Witt, Harold G. Wood; George E. Marshall, timber estimator; W. O. Filley, collaborator.

DISTRICT 1.—Operation: Assistant forest rangers—William H. Morse, Beartooth; Herbert H. Bissell, and Clyde C. Carpenter, Blackfeet; Glen L. Dodge, Cabinet; William E. Jackson, Deerlodge; Henry W. Sutton, Jefferson; James G. Danilson, Kaniksu; Harry A. Goodale and Walter W. Smith, Michigan; Harold B. Knapp, Pend Oreille; William F. Perrine, Selway; Charles M. Hubbard, Sioux; forest clerks—Philip M. Lamoreux, Blackfeet; Mark B. McConnell, Coeur d'Alene; Erwin H. Whitehead, Jefferson; Walter R. Otis, Kootenai; clerks (stenographers and typewriters)—Lura F. Babbitt, Absaroka; Helena Helseth, Deerlodge; Stella G. Baird, Kaniksu; Albert H. Sundahl, Pend Oreille; Margaret W. Grinnan, St. Joe. District office: Frank J. Cool, copyist-topographic draftsman; clerks (stenographers and typewriters)—Mayme E. Butler, Grace E. Foley, Myrtle E. Grace, and Esther M. Watts.

DISTRICT 2.—Operation: Nora D. Booth, clerk (stenographer and typewriter), and Charles Farr, clerk, Black Hills; forest clerks—William M. English, Bonneville; Harry H. Power, Medicine Bow; Cecil P. Blake, Sopris; forest assistants—Richard A. Phillips, Harney; Michael J. Sweeney, Medicine Bow; assistant forest rangers—Omer Mills, Black Hills; John L. Glendenning, Gunnison; Henry H. McCrary, Harney; Elbridge F. Ball, Sundance; Phil K. Stephens, district office.

DISTRICT 3.—Operation: Carleton Whidden Eaton, forest assistant, Jemez; John R. Towles, clerk (stenographer and typewriter), Datil; Howard M. Moore, clerk (typewriter), Jemez; forest clerks—D. Delmar Douglas and Edward A. Pfefferle, Gila; Charles J. Wohlken, Manzano; Clement L. Lincoln, Tonto. Silviculture: Forest assistants—Raymond E. Hopson, Carson; Alexander J. Jaenicke, Clarence F. Korstian, and J. Wilbur O'Byrne, Coconino. Lands: Andrew Kennedy, mineral examiner.

DISTRICT 4.—Operation: Forest assistants—Charles F. Evans, Boise; David A. Arrivee, Raymond D. Garver and William Benjamin Rice, Fishlake; Frederick S. Baker, Samuel E. Bower, and John C. Roak, Manti; Thomas F. Heineman and Earl C. Sanford, Payette; assistant forest rangers—Thomas Alvey, Kaibab; Riley Johnson, La Sal; Claude Kelsen, Manti; Milton S. Rogerson, Wasatch; forest clerks—Walter F. Ballantyne, Nevada; Clarence D. Moir, Salmon. Property audit: Clerks—Clyde M. Gwin and E. Maude Stone.

DISTRICT 5.—Operation: Clerks—Madge V. Cleary, Philo A. Tucker, Edith M. Helgesson, district office; clerks (stenographers and typewriters)—Jessie G. Crittenden, district office; Lillian R. Jones, Modoc; Alfred R. Ratcliffe, Mono; Martha Mary Entwistle, Shasta; Alice E. McCall, Sierra; Arthur I. Bell, copyist-topographic draftsman, district office; Ralph Hopping, forest examiner, district office; forest assistants—Edward N. Munns, Angeles; Edward J. Yeomans, Mono; Frank A. Wegner, Clifford M. Cole, and Clarence E. Taylor, Plumas; Edward H. Coulson, Tahoe; assistant forest rangers—Newton Garner, Angeles; Charles Kollman, Lassen; Wm. M. Clingan, Sequoia; John N. Lindsey and Henry Zimmerman, Stanislaus; Walter H. Coupe and Martin F. Hussey, Tahoe; William A. Thomsen, Trinity.

DISTRICT 6.—Operation: Forest assistants—Wm. Crosby and Arthur W. Hodgman, Crater; Geo. Y. Baker, Samuel E. Robinson, Will J. Sproat, Thurman J. Starker, Whitman; clerks—Clarence W. Kitchen, Santiam; George W. Jackson, Snoqualmie; Hildred M. Amadon, Umpqua; assistant forest rangers—Harry W. Fisk, Chugach; Roland L. Cline, Columbia; Perry A. Thompson and Raymond H. Thompson, Colville; Burton Oney, Deschutes; John G. Burghardt, Howard J. Eberly, Okanagan. Silviculture: H. P. Henry, lumberman, district office. Lands: Sadie Worth, clerk, district office.

RESTORED TO THE ROLLS.

SILVICULTURE—Austin Cary, expert. Silvics: Georges de S. Canavarro.

DISTRICT 1.—Operation: Assistant forest rangers—Fred F. Clark, Marion E. Heikes, and Raymond J. Smith, Blackfeet; James L. Adams, Cabinet; Charles A. Newman, Custer; Armon E. Havens and Ray I. Trueman, Flathead; William E. Kierstead, Jefferson; Thomas E. Herrington, Charles E. Marshall, and Edward J. Weidner, Kootenai; William V. Manring, Richard E. Moses, and Charles A. Rice, Nezperce.

DISTRICT 2.—Operation: Earl S. Pierce, forest assistant, Harney.

DISTRICT 3.—Operation: Charles C. Hall, forest supervisor, Tonto; Claude E. Malbone, assistant forest ranger, Jemez. Grazing: John Kerr, assistant district forester, district office. Lands: Gerald Griffin, clerk.

DISTRICT 4.—Operation: Truman R. Peters, assistant forest ranger, Minidoka. Supply depot: Addie E. Morse, clerk (stenographer and typewriter).

DISTRICT 5.—Operation: John T. Noddin, forest ranger; Birney William Adams, assistant forest ranger, Monterey.

DISTRICT 6.—Operation: Clarence J. Ingram and Edw. H. Lough, assistant forest rangers, Umpqua.

REINSTATED.

DISTRICT 1.—Operation: Assistant forest rangers—Henry R. Snider, Cœur d'Alene; Perry R. Rogers, Kootenai. District office: Erma L. Davis, clerk (stenographer and typewriter).

DISTRICT 6.—Operation: John A. Baker, assistant forest ranger, Cascade.

CHANGE IN DESIGNATION.

FORESTER—Publication: Don Carlos Ellis, from clerk-examiner to assistant in forest education.

SILVICULTURE.—Robert Y. Stuart, assistant district forester to forest inspector. Silvics: Wilbur R. Mattoon, forest supervisor, to forest examiner.

DISTRICT 2.—Operation: Frank H. Carroll, chief of maintenance to clerk, district office; Stanley R. Brock, forest ranger to assistant forest ranger, Routt.

DISTRICT 3.—Operation: Assistant forest rangers to forest rangers—James H. Sizer, Apache; Hezekiah B. Hammond, district office; Joseph H. Woolsey, Crook; Robert F. Rhinehart, Datil; Earl B. Young, Jemez; Elliott S. Barker, Pecos; Charles P. Gage, forest ranger to assistant forest ranger.

DISTRICT 4.—Operation: Duncan M. Lang, deputy forest supervisor to scaler.

DISTRICT 5.—Operation: Frederick H. Smith, from chief of maintenance to clerk, district office; Glenburn H. Crow, forest ranger to assistant forest ranger, Inyo.

DISTRICT 6.—Operation: Shirley Buck, chief of maintenance to clerk, district office; assistant forest rangers to forest rangers—Smith L. Taylor, Cascade; Adam H. Wright, Colville; John Kirkpatrick, Rainier; William B. Milbury, Siskiyou; Jos. A. Harris, Wallowa; Ralph A. Hilligoss, Washington; Thomas Thompson, Washington; Spencer A. Blankenship, Wenatchee. Lands: J. Roy Harvey, forest supervisor to forest examiner.

TRANSFERRED.

SILVICULTURE.—Robert Y. Stuart, assistant district forester, from District 1 to Washington office. Silvics: Wilbur R. Mattoon, forest supervisor, from District 3 to Washington office.

PRODUCTS.—John T. Harris, statistician in forest products, from Chicago, Ill., to Washington office. Laboratory: Andrew K. Armstrong, engineer in timber tests, from District 5 to Madison laboratory.

DISTRICT 1.—Operation: J. A. Fitzwater, forest supervisor, from Superior to Pend Oreille; Frederick R. Mason, forest assistant, from Missoula to Kaniksu; Ernest F. Jones, forest assistant, from Indian Service to Madison.

DISTRICT 2.—Operation: H. Earl French, forest supervisor, from Bonneville to Nebraska; Lee E. Cooper, deputy forest supervisor, from Uncompahgre to Bonneville; forest assistants—Roy G. Pierce, from Nebraska to Colorado; Earl S. Peirce, from Harney to district office; Harold C. Clark, from Colorado to Bighorn; Huber C. Hilton, from Arapaho to Colorado; forest rangers—Howard B. Waha, from District 2 to District 3; John B. Cammann, from Gunnison to district office. Products: Cornelius Barry, laboratory assistant, from Boulder Laboratory to District 6.

DISTRICT 3.—Operation: Assistant forest rangers—Hezekiah B. Hammond, Manzano to district office; Ralph L. Bateman, Apache to Prescott; Lewis J. Mundell, Lincoln to Datil; George R. Yorke, Prescott to Tusayan; Helen B. Smith, draftsman (copyist-topographic), District 3 to District 7; Frank C. Douglas, forest clerk, Tonto to Arkansas. Silviculture: Joseph C. Kircher, forest examiner, Coconino to district office; Jay L. B. Taylor, forest ranger, Jemez to Carson. Lands: E. Violet Cook, clerk (typewriter), District 3 to District 6; Lillian A. Munger, forest clerk, Manzano to district office.

DISTRICT 4.—Accounts: Clerks—John W. Cook and Ruth W. Helfff, to the Washington office; Edgar G. Hapke, Sawtooth, to district office; Clarence B. Johnson, Jemez (District 3) to district office. Operation: Forest assistants—Edwin C. Shepard, Manti to Payette; Irwin W. Cook, Salmon to Targhee; Forman T. McLean, Manti to Utah Experiment Station; William Swan, forest ranger, Salmon to Idaho Land

Exchange; assistant forest rangers—Forrest R. Castle, Carl Stockbridge, and Vivian N. West, Humboldt to Ruby; Ora Cockrell, Idaho Land Exchange to Salmon; August A. Schroeder, Salmon to Idaho Land Exchange. Supply Depot: Beatrice Boreman, clerk (typewriter), to District 5.

DISTRICT 5.—Operation: Ernest B. Long, forest ranger, from Angeles to Shasta; Louis T. Larsen, forest assistant, from Stanislaus to Plumas. Silviculture: Harold H. Greenamyre, forest assistant, from District 3 to District 5.

DISTRICT 6.—Accounts: Wm. L. Bishop, clerk, district 3 to district 6; B. I. Shannon, clerk, Crater to district office. Operation: Forest assistants—A. H. Hodgson, Siskiyou to Ochoco; H. M. Johnson, Okanogan to Siuslaw; Arthur F. Kerr, district office to Paulina. Lands: J. Roy Harvey, forest supervisor, Deschutes to district office; Ernest Jameson, assistant forest ranger, Okanogan to district office. Products: Cornelius Barry, laboratory assistant, district 2 to district 6.

PROMOTED IN RANK.

DISTRICT 1.—Operation: Claude W. Griffin, deputy forest supervisor to forest supervisor, Cabinet; W. B. Piper, forest examiner to forest supervisor, Marquette and Michigan; R. Trevor Ferguson, assistant forest ranger to deputy forest supervisor, Deerlodge.

DISTRICT 2.—Operation: Assistant forest rangers to forest rangers—Jolly B. Robinson, Battlement; Herman E. Anderson, Bighorn; Fred J. Seals, Black Hills; George E. Belknap, Bridger; William E. Whitten, Cochetopa; John B. Cammann, Gunnison; James F. Conner, Harney; William A. Poe, Harney; Mark Edick, Hayden; Solon D. Ackley, Holy Cross; Ira W. Blundell and Samuel Harry Clay, Leadville; Harry E. Kauffman, Montezuma; Albert H. Hoffman and James J. Lowell, San Isabel; Charles B. Mack, San Juan; William P. Huffman, Sopris; William M. Jeffrey, forest guard to assistant forest ranger, Pike.

DISTRICT 3—Operation: Assistant forest rangers to forest rangers—William John Anderson, Alamo; Milford L. Nichols, Apache; Will A. Garner, Arkansas; Waldemar E. Currin, Coronado; Winfield S. Day, Datil; Andrew J. James, Ozark; Everett A. Marlowe, Prescott; Osmer D. Flake, Sitgreaves; Edward G. Miller, Zuni; Aldo Leopold, deputy forest supervisor to forest supervisor, Carson; Harrison D. Burrall, forest assistant to forest examiner, Pecos. Silviculture: Joseph C. Kircher, deputy forest supervisor to forest examiner; John A. Adams, assistant forest ranger to forest ranger, Apache.

DISTRICT 4.—Operation: George C. Thompson, deputy forest supervisor to forest supervisor, Nevada; assistant forest rangers to forest rangers—John S. Bennett, Ashley; Frank E. Gray, Boise; Andrew Romero, Cache; Frank M. Butler and James H. Johnson, Caribou; Thomas M. Herbert, Fishlake; Joseph W. Palmer, La Sal; Mark K.

Cherry, Lemhi; Bert Mahoney, Minidoka; Doctor B. Bailey, William L. Farmer, Bernard McNulty, Stanley D. Reed, and Charles P. Thompson, Nevada; Horace J. Burr and Elmer C. Ross, Payette; Alexander McQueen, Pocatello; Ora Cockrell and Frederick C. Haman, Salmon; Noel C. Heath, Ray Ivie, and John E. Minear, Sawtooth; Lemuel Steele, jr., and Samuel W. Stoddard, Targhee; James A. Cahill, Toiyabe; Frank W. Thomas, Uinta; John V. Manwill, Wasatch; Thomas Evans and Alvan L. Rawson, Weiser; Glidden J. Barstow, Wyoming.

DISTRICT 5.—Operation: Daisy E. Walker, from map colorist to copyist-topographic draftsman, district office; Swift Berry, from forest assistant to forest examiner, district office; Sydney N. Stoner, assistant topographer to forest examiner; Ralph Hopping, forest ranger to forest examiner, Sequoia; Sedman W. Wynne, forest assistant to deputy forest supervisor, Sequoia; assistant forest rangers to forest rangers—Charles V. Brereton and Clarence Ruff, California; Elmer L. Scott, Eldorado; Robert H. Logan, Inyo; Robert R. Martin, Kern; Robert Finley and Perry J. Hill, Klamath; Harvey Abbey, Lassen; James F. Poore and Roy L. Snelling, Modoc; Fred B. Clark, Mono; Norman H. Sloane, Monterey; George M. Hayes, Plumas; George A. Bald, Santa Barbara; Ferris D. Hobron, Stanislaus; Frank A. Wilson, Tahoe; forest guards to assistant forest rangers—Grover C. Bruce, Raleigh R. Bryan, and Walter L. Butts, Eldorado; Ernest E. McKee and Arthur W. Phillips, Sequoia.

LEAVE WITHOUT PAY.

DISTRICT 1.—Operation: Edward C. Clifford, forest assistant, Madison; Lula T. Wools, forest clerk, Deerlodge; district office: Lelah Marquette, clerk (stenographer and typewriter).

DISTRICT 2.—Operation: Seth E. Hopewell, forest clerk, Black Hills; forest assistants—Roy G. Pierce, Colorado; Leigh J. Young, Medicine Bow; Morton B. Willey, forest ranger, San Isabel; assistant forest rangers—Philip S. Barker, Arapaho; Randolph A. Wheeler, Bighorn; John F. Felter, Cochetopa; John N. Million, Rio Grande; Daniel O. Eckis, Leadville.

DISTRICT 3.—Operation: Assistant forest rangers—George W. Messer, Alamo; Marshall D. Loveless, Carson; Edward W. Face, Gila; Luetta C. Steinemann, clerk (stenographer and typewriter), Gila. Silviculture: Ernest C. Pegg, forest assistant, Jemez.

DISTRICT 4.—Operation: Christopher W. Pfost, forest ranger, Palisade; assistant forest rangers—Charles P. Jones and Albert G. Richards, Lemhi; William C. Shepard, Palisade; Clarence E. Favre, Payette; forest clerks—Edgar B. King, Lemhi; Guy C. Hendrickson, Nevada; James T. Owens, game warden, Kaibab.

DISTRICT 5.—Operation: Ruth Sisson, clerk (stenographer and typewriter), district office; assistant forest rangers—Dwight C. Birch, Kern; Joseph E. Jensen, Klamath; Emil H. Spiering, Klamath.

DISTRICT 6.—Accounts: Wm. K. Blessing, clerk, district office. Operation: Gertrude L. Whiting, district office; Wm. C. Neff, forest ranger, Crater; assistant forest rangers—Grover C. Conger, Malheur; Parker S. Bonney, Olympic; Benj. S. Patton, Oregon; Wm. H. Thompson, Whitman. Lands: Annie L. Stewart, clerk, district office.

FURLOUGHED.

DISTRICT 1.—Operation: Assistant forest rangers—Grover A. Allen, Coeur d'Alene; Harold B. Knapp, Pend Oreille.

DISTRICT 2.—Operation: William M. Jeffrey, assistant forest ranger, Pike.

DISTRICT 3.—Operation: Arthur H. Noon, assistant forest ranger, Coronado; John R. Coleman, assistant forest ranger, Lincoln.

DISTRICT 4.—Operation: Assistant forest rangers, Marion T. Johnson, Caribou; Guy S. Heath and Forest Turner, Sawtooth.

DISTRICT 5.—Operation: Assistant forest rangers—Martin B. Turner and Wallace C. Williams, Tahoe.

DISTRICT 6.—Operation: Assistant forest rangers—Jas. E. Van Nuys, Oregon; Joseph L. Mackechnie and Edgar J. Murnen, Rainier; Harold S. Newins, Santiam; Frank J. Klobucher, M. Donald Knapp, and Moritz L. Mueller, Snoqualmie; Norman G. Macauley, Washington.

RESIGNED.

PRODUCTS.—Laboratory: Ollison Craig, assistant engineer in forest products; Thomas Lyons, laboratory assistant.

ACQUISITION.—Samuel N. Spring, collaborator.

DISTRICT 1.—Operation: Ralph H. Bushnell, forest supervisor, Cabinet; Ralph W. French, forest clerk, Coeur d'Alene; assistant forest rangers—Charles A. Sage, Blackfeet; Rollo Older, Cabinet; Alfred W. Harwood and Frank W. Syler, Madison; William A. Schell, Pend Oreille; Louis Fitting, Selway.

DISTRICT 2.—District office: Harry M. Booth, expert miner; Scovel H. Johnson, agent. Operation: Edgar C. Berky, deputy forest supervisor, Gunnison; Chas. A. Dunn, clerk, Sopris; Thomas Topham, forest clerk, Medicine Bow; Morton B. Willey, forest ranger, San Isabel; John B. Cammann, forest ranger, district office; assistant forest rangers—Randolph A. Wheeler, Bighorn; Homer O. Reed, Black Hills; Herbert E. Willis, Montezuma; Orvil Wilson and John A. Hageman, Rio Grande; John K. Rollinson, Shoshone; Charley W. Nettelhorst, Sundance; Benjamin F. Sandercock and Raymond L. Allen, White River. Lands: Eugenia W. Smith, clerk (stenographer and typewriter).

DISTRICT 3.—Operation: Elmer C. Martel, forest clerk, Arkansas; Charles Wilton, assistant forest ranger, Carson; Lewis Benedict, forest ranger, Coconino; Myron G. Browne, clerk, Gila; Joseph W. Jackson,

assistant forest ranger, Gila; Floyd R. Wigely, forest clerk, Sitgreaves; Clarence M. Johnson, assistant forest ranger, Zuni; Marion Franklin, clerk (typewriter), district office; Henry L. Benham, forest ranger, Tusayan.

DISTRICT 4.—Operation: Assistant forest rangers—Charles A. Mace, Kaibab; Richard W. Young, Salmon.

DISTRICT 5.—District office: Clerks—Madge V. Cleary, John C. Lindsay, Hilda R. Katz; Ellen S. De Valin, copyist-topographic draftsman; Emma A. Burgren and Ruth M. Lyle, clerks (stenographers and typewriters); John C. Wells, forest ranger. Operation: Assistant forest rangers—Charles H. Fick and George Crow, Angeles; Walter L. Parsons, Eldorado; Charles Bauder, Mono; Howard H. Griffitts, Trinity; James F. Richardson, forest ranger, Klamath; Ernest D. Payne, forest ranger, Modoc; Alley C. Keller, deputy forest ranger, Angeles.

In the July Field Program, James E. Davis appears under the heading "Resigned," in District 5. This was an error. The name should have been Andrew F. Layton, Mr. Davis having taken the statutory position vacated by Mr. Layton's resignation.

DISTRICT 6.—Operation: Maud L. Wheelock, clerk, Minam; Wm. W. Musgrave, clerk, Ochoco; Parish S. Lovejoy, forest supervisor, Olympic; Burt P. Kirkland, forest supervisor, Snoqualmie; Bessie M. MacMillan, clerk, Snoqualmie; assistant forest rangers—Vinton M. McKibben, Olympic; Martin J. Gribble and John B. Senecal, Oregon; Peter S. Rice, Siuslaw; Harry E. Johnson, Umatilla; Elmer G. Thomas, Wenaha. Products: Seattle Laboratory—Jas. R. D. Knapp, laboratory assistant in timber tests.

APPOINTMENT TERMINATED.

DISTRICT 1.—Operation: George W. Sinclair, assistant forest ranger, Lolo.

DISTRICT 2.—Operation: Fanny A. Reed, clerk (stenographer and typewriter), district office; assistant forest rangers—Truman O. Smith, Arapaho; Huestes N. Gallaher, Colorado; Linley R. Engele, Nebraska; Simon Snyder, Shoshone.

DISTRICT 3.—Silviculture: Irving W. Gilson, forest assistant.

DISMISSED.

DISTRICT 1.—Operation: Lea Marston, forest ranger, Gallatin; Phil S. Armstrong, assistant forest ranger, Pend Oreille.

With deep regret announcement is made of the following deaths: Henry Huck, assistant forest ranger, Nezperce National Forest; and James T. Matthews, forest ranger, Toiyabe National Forest.

SERVICE NOTES FOR OCTOBER.

These notes contain instructions and necessary information to forest officers, and will therefore be carefully read and kept on file for reference.

LAW.

OFFICE OF THE SOLICITOR.

Law Cases in District 1—

On July 9, 1912, George Robinsor was indicted in the district court of the United States for the district of Minnesota for willful injury to a Government telephone line. He entered a plea of guilty and was sentenced to 10 days' imprisonment. The judge administered a severe reprimand and stated he would have imposed a sentence of six months if the defendant had not already spent approximately that length of time in jail awaiting trial.

On September 5, 1912, in the cases of the United States *v.* Wm. D. Nelson, Arthur J. Kulp, and John E. Cleary, the United States district court for the district of Idaho overruled defendants' demurrers to indictments for perjury. The indictments charged that the defendants had applied to enter certain lands upon the Coeur d'Alene Forest and had filed with their applications affidavits containing false and fraudulent statements with regard to settlement and residence. The indictments each contained two counts, one charging an offense under section 5 of the act of March 3, 1857 (11 Stat., 250), and the other perjury under the Penal Code of March 4, 1909. The court held that the act of 1857 had been repealed by the revision of the United States statutes in 1873, but that the indictments were good under section 125 of the Penal Code.

Law Cases in District 3—

On preliminary hearing before the United States commissioner Francisco Arballo was held for the grand jury under bond of \$500 for grazing trespass on the Coronado National Forest; Juan Espinoza waived preliminary hearing and was held for the grand jury under bond of \$100 for grazing trespass on the Crook National Forest, the civil suit being settled for \$78.85, the value of the forage consumed; on preliminary hearing before the United States Commissioner Looch Jones and Ira Corder were held for the grand jury under bond of \$250 each for fire trespass on the Arkansas National Forest.

Suit for timber trespass on the Alamo National Forest was brought against J. H. McRae and R. A. Barrett to recover \$1,200, the value of the timber on a willful basis; and for timber trespass on the Florida

National Forest against D. P. McKenzie and the Consolidated Land & Lumber Co., to recover \$600, the value of the timber on a willful basis.

Judgment for \$169.55 against W. F. Montgomery, grazing trespass on the Alamo National Forest, was satisfied.

Law Cases in District 4—

A bill in equity has been filed in the United States district court for Utah praying for an injunction to restrain the Utah Light & Railway Co. from further occupancy, without a permit, of lands within the Wasatch National Forest.

The following cases of grazing trespass have been settled by payment of damages and costs: C. W. Barker, Wasatch National Forest, \$26.25 actual, \$50 punitive, and \$16.79 costs—total, \$93.04; Harvey Knowles, Weiser National Forest, \$83.30 actual and \$8.10 costs—total, \$91.40; F. C. Meacham, Minidoka National Forest, \$7.50 actual, \$12.50 punitive, and \$2.95 costs—total, \$22.95.

Law Cases in District 5—

The suit filed in the State court against Robert W. Ayres, supervisor of the Stanislaus National Forest, to restrain collection of grazing fees on lands claimed by the plaintiff under the swamp and overflow act, was removed to the Federal district court, northern district of California, on August 2, 1912, on petition of the Government.

On August 3, 1912, D. Ohtart and L. Lopeteguy were bound over to the grand jury under \$500 bond each, by the United States commissioner at Fresno, Cal., for unlawfully grazing sheep on the Kern National Forest.

Suit was filed against the Blue Channel Mining Co. for willfully removing timber from a placer claim within the Tahoe National Forest. On September 19, 1912, the president of the company settled the case by the payment of \$101.32, together with \$37.25 costs.

Law Case in District 6—

In the United States district court for Oregon in the case against H. B. Healey, grazing trespass on the Wallowa National Forest, settlement was made for \$224 actual damages and \$16.30 punitive damages, the latter amount representing the costs.

OPERATION.

Photoprint Album of Forest Activities—

An album of photoprints illustrating the various activities of the Forest Service has been sent to each forest supervisor from the Office of Geography. The preparation of these albums has required two years, since the work was done only at such times when it would not interfere with other official work. If for any reason a supervisor or district office has not received a copy of this album, the Forester should be notified immediately.

LANDS.

Settlement: Relative to Listing Areas in Excess of 160 Acres—

It has come to the attention of the Forester that there has been a variance in the practice among district foresters when application under the act of June 11, 1906, is made for surveyed lands including irregular lots aggregating more than 160 acres. The rule is that an area in excess of 160 acres may be allowed where the excess is less than the deficiency would be if the smallest legal subdivision were eliminated. A copy of the decision of the Commissioner of the General Land Office, dated February 20, 1909, holding that this rule applied to entries under the act of June 11, 1906, except in cases where the entries are made by metes and bounds, was inclosed with settlement circular letter to district foresters of July 29, 1912.

Settlement: Notice to Applicants Relative to Review or Reexamination—

An extract from the Manual has been printed, copies of which may be secured from the property clerk, relative to the procedure in case an applicant desires a review of the district forester's decision in rejecting his application under the act of June 11, 1906. This sheet should accompany letters of rejection to applicants and be sent to those making inquiry concerning the procedure in this respect. (See Settlement circular letter of Aug. 9, 1912.)

Settlement: Accumulation of Listing Letters—

[Circular letter of Aug. 28, 1912.]

The practice seems to prevail in some districts of holding back listing letters until a number of cases have accumulated before forwarding them to this office. This results not only in delaying the applicants' entry of the land but causes congestion of work in the Washington office and the General Land Office. These letters should be prepared and the cases promptly forwarded as soon as complete report is received and the area to be recommended for listing has been determined.

Settlement: Reports on Form 110—

[Circular letter of Aug. 30, 1912.]

Hereafter when reports on the old Form 110 are forwarded please see that all the information required by the present form is included. When the old outline is used it frequently happens that important questions, such as whether or not an exception for a roadway is necessary, are not answered. This necessitates further correspondence and greatly retards final action.

Settlement: Separate Letters Transmitting Telephone Right-of-Way Tracings and Field Notes—

[Circular letter of Sept. 7, 1912.]

Hereafter when it is necessary to reserve a right of way for a telephone line over a tract listed under the act of June 11, 1906, please prepare a separate letter addressed to the Secretary of the Interior,

transmitting the tracings and field notes describing the right of way instead of inclosing them with the listing letter. Reference, however, should be made in each letter to the other.

The General Land Office has informally requested that this be done since the opening to entry of the lists is handled by one division and the notation of the rights of way by another division. Separate letters will, therefore, be a great convenience to them in the handling of these cases.

Settlement: Blue Prints to Accompany Listing Letters—

[Circular letter of Sept. 17, 1912.]

Whenever a tract of land is listed by metes and bounds and a strip is excepted from the listing, the courses and distances of said strip should be shown on the same blue print as the area to be listed. Several of the districts have been making separate blue prints showing the excepted strip and sending for transmission to the Interior Department four blue prints. This seems to be unnecessary, since one map will serve the purpose of showing the boundary of the listed tract as well as the roadway exception, and two blue prints thereof will be sufficient for the Interior Department.

Settlement: Manual Amendment, Free-Use Permits to Applicants—

An amendment to page 41 of the Manual has been prepared and is pending the approval of the Solicitor, providing for the issuance of special-use permits to applicants under the act of June 11, 1906, effective until the lands are opened to entry. Heretofore such permits terminated upon the listing of the lands with the Secretary of the Interior. This amendment is made in view of the provision in the current appropriation act that "no lands listed under the act of June 11, 1906, shall pass from the forest until patent issues."

Settlement: Mineral Examinations of Tracts Applied for—

In the case—L, Wenatchee, Settlement, Monahan H. 98—the Acting Forester on September 17, 1912, referred to the paragraph on page 38 of the Claims Manual under the caption "Applications in conflict with mineral locations," and also to the paragraph on page 46 of that Manual under the caption "Applications in conflict with mineral locations," and held that the paragraph on page 38 is intended for the guidance of the examiner in the field, and that the paragraph on page 46 is intended for the guidance of the district forester when the report of the examiner reaches him, and that, if from that report he has any doubt as to the advisability of recommending the listing of a tract because he has reason to believe that the land may be more valuable for mining than for agriculture, it is believed that the instructions on page 46 of the Manual are broad enough to justify him in causing the tract to be examined by a mineral examiner or some other qualified forest officer, and that the amendment of the Manual to that effect is unnecessary. He also held that if after receipt of the report of the mineral examiner or otherwise the tract is recommended for listing, there would be no objection to the district forester notifying the mineral locator of that action.

Claims: Manual Amendment, Examination of June 11 Entries—

Amendment No. 136 to the Manual is now in print, and copies may be secured from the property clerk at Ogden. This amendment eliminates indorsement (e) on page 15, and also the third paragraph on page 16, thereby removing the distinction which previously existed with reference to the examination of entries under the act of June 11, 1906, and those made under the homestead laws. (Applicable only to lands listed since August 10, 1912.)

Claims: Manual Amendment 139, Final Proof Notice Indorsements—

The following amendment to the Manual has been approved and is now in the hands of the printer:

Claims.—Since it is desirable that the procedure of the Forest Service and that of the General Land Office should conform as nearly as possible to each other in the return of final proof notices, the instructions in the last paragraph of page 15 of the Claims Manual are hereby amended by substituting for indorsement (b) the following:

"(b) Please withhold final certificate; report submitted (or will be submitted) to the district forester _____, 19____;"

Also for use when a report can not be made prior to the return of the notice to the Register and Receiver and the Supervisor has not sufficient information at hand to warrant the use of indorsement (a), the following indorsement:

"(f) Please withhold final certificate until field investigation has been made and report submitted by the Forest Service. A report will be forwarded to the district forester on or about _____, 19____."

SERVICE PUBLICATIONS ISSUED.

Bulletin 108. Tests of Structural Timbers.

Bulletin 109. Distillation of Resinous Wood by Saturated Steam.

Bulletin 110. The Specific Heat of Wood.

Bulletin 111. Lightning in Relation to Forest Fires.

Bulletin 112. Fire-Killed Douglas Fir: A Study of Its Rate of Deterioration, Usability, and Strength.

Circular 198. Condition of Experimental Chestnut Poles in the Warren-Buffalo and Poughkeepsie-Newton Square Lines After Five and Eight Years' Service.

Circular 200. The Absorption of Creosote by the Cell Walls of Wood.

Circular 201. Emory Oak in Southern Arizona.

Circular 206. Commercial Creosotes with Special Reference to Protection of Wood from Decay.

Circular 207. The Profession of Forestry.

Silvical Leaflet 45. Western Hemlock.

Silvical Leaflet 51. Broadleaf Maple.

Silvical Leaflet 52. Oregon Oak.

Silvical Leaflet 53. Red Alder.

Unnumbered. Instructions for the Building and Maintenance of Telephone Lines on the National Forests.

Unnumbered. National Forest Manual—General Administration and Protection.

CUMULATIVE INDEX TO SERVICE NOTES AND ORDERS.

(JULY-OCTOBER, 1912.)

[Numbers in parentheses after the month indicate page.]

Amendments to Manual. (*See* Manual, amendments to.)

Attendance at meetings or conventions; July (24).

Claims; October (58-60).

Delayed publications; July (24).

Fire cooperation by postal employees; July (26).

 trespass. (*See* Trespass, fire.)

Form 331 revised; July (28).

General order 155; July (24).

Grazing trespass. (*See* Trespass, grazing.)

Lands, claims; October (58-60).

settlement; October (58-60).

Law cases in district 1; July (25); October (56).

2: July (25).

3: July (25); October (56-57).

4: July (26); October (57).

5: July (26); October (57).

6: July (26); October (57).

Manual, amendments to; July (28); October (59-60).

Photo-prints album; October (57).

Irotractor, lookout station; July (28).

Settlement; October (58-60).

Signs, symbols, and colors; July (27).

Subsistence for one day after arrival; July (26).

Timber trespass. (*See* Trespass, timber.)

Trespass cases, fire, district 2; July (25).

district 6: July (26).

grazing, district 2; July (25).

district 3; July (25); October (56-57).

district 4; July (26); October (57).

district 5; October (57).

district 6; July (26); October (57).

timber, district 1; July (25).

district 2; July (25).

district 3; July (25); October (56).

district 4, July (26).

district 5; October (57).



